

What is claimed is:

1. A method for identifying a compound that inhibits the activity of a protein essential for *Drosophila* larval viability, comprising:
  - (a) expressing in a recombinant host a DNA molecule comprising
    - (i) a nucleotide sequence selected from the group consisting of the even numbered SEQ ID NOs:14-360, or
    - (ii) a nucleotide sequence encoding an amino acid sequence selected from the group consisting of the odd numbered SEQ ID NOs:15-361,to produce a protein essential for *Drosophila* larval viability;
  - (b) testing compounds suspected of having the ability to inhibit the activity of the protein expressed in (a); and
  - (c) identifying a compound tested in (b) that inhibits the activity of the protein.
2. A method for killing or inhibiting the growth or viability of an insect, comprising applying to the insect a compound identified according to the method of claim 1.
3. A method for identifying a compound that interacts with a protein essential for *Drosophila* larval viability, comprising:
  - (a) expressing in a recombinant host a DNA molecule comprising
    - (i) a nucleotide sequence selected from the group consisting of the even numbered SEQ ID NOs:14-360, or
    - (ii) a nucleotide sequence encoding an amino acid sequence selected from the group consisting of the odd numbered SEQ ID NOs:15-361,to produce a protein essential for *Drosophila* larval viability;
  - (b) testing compounds suspected of having the ability to interact with the protein expressed in (a); and
  - (c) identifying a compound tested in (b) that interacts with the protein.

4. A method for killing or inhibiting the growth or viability of an insect, comprising applying to the insect a compound identified according to the method of claim 3.

5. A method for killing or inhibiting the growth or viability of an insect, comprising inhibiting expression in said insect of a protein having at least 60% sequence identity to an amino acid sequence selected from the group consisting of the odd numbered SEQ ID NOs:15-361.

6. The method of claim 5, wherein expression of said protein is inhibited by disruption in said insect of a nucleotide sequence having at least 60% sequence identity to a nucleotide sequence selected from the group consisting of the even numbered SEQ ID NOs:14-360.

7. The method of claim 6, wherein said nucleotide sequence is disrupted by RNA interference.